ART 1/2 MAINTENANCE NOTE 9 (for Electronics Technicians) Engineering Division W/OSO321:FLP

Improved Transient Suppressor J170-2Al

General

- 1. This note informs electronics technicians of an improved transient suppressor that is being stocked at the National Logistics Supply Center (NLSC).
- 2. Effect on Other Instructions: Insert one copy of figure 1 in ART manual 9-602/9-702, volume 2, in front of figure 7-5, page 7-19/20. Retain the other copy of figure 1 with this note.

Procedure

The original transient suppressor, Servo P/N 900098-01H, used in the signal/power distribution assembly has experienced a high failure rate. Testing shows that it is operated close to its maximum current rating.

To improve equipment reliability, an improved suppressor is now being stocked at NLSC under WSN J170-2A1, NSN 6660-00-198-0000-X. The new suppressor is an MCG Electronics Model 416. It is rated for 30 A at 120 VAC and has no fuse protection. It does have an LED status indicator that functions the same as on the original suppressor. Stations are not required to replace any existing suppressors with the new Model 416 until the old unit fails. The new NSN given above must be used to order Model 416.

Please note: the old suppressor is still used in the DCA and will remain in stock under WSN J170-3A1A1, NSN 6660-01-198-6120.

Because of design differences, the following procedure should be used when replacing an old-style suppressor with the Model 416.

- a. Remove AC power from the Signal/Power Distribution Assembly.
- b. Locate the AC return line that is connected between terminal D29 and terminal 1 of the old suppressor. Remove this lead from terminal 1 of the old suppressor and connect it to "LINE" terminal 2 (Input) of the new suppressor.
- c. Remove the remaining wire connected to terminal 1 of the old suppressor and connect it to "LOAD" terminal 2 (Output) of the new suppressor.

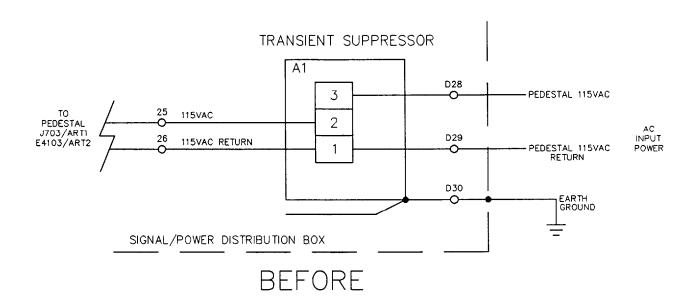
- d. Remove the wire connected to terminal 3 of the old suppressor and connect it to "LINE" terminal 1 (Input) of the new suppressor.
- e. Remove the wire connected to terminal 2 of the old suppressor and connect it to "LOAD" terminal 1 (Output) of the new suppressor.
- f. Connect a good earth ground to "LINE" terminal 3 (Input). This must be done for proper transient suppressor operation. Note that the case of the new suppressor is not connected to earth ground.
- g. After the installation is complete, relabel all wires with the new terminal numbers.
- h. Restore AC power to the system.

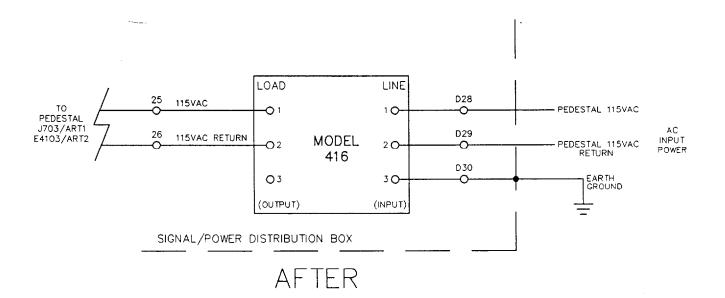
Figure 1 shows the schematic before and after installation.

J. Michael St. Clair

Chief, Engineering Division

n. St. Clan





EHB-9, Section 2.4 Maintenance Note 9 Issuance 89-3 2-9-89